

Additional file 2, Table S1. Primer sequences for screening of mutations.

| Gene | Exon      | Primer name   | Sequence                    | Amplicon<br>size (bp) |
|------|-----------|---------------|-----------------------------|-----------------------|
| p53  | 5, 6      | p53-ex5/6-F   | TTTCTCCATCGACTGTTACATTT     | 343                   |
|      |           | p53-ex5/6-R   | GGATGAGCAAAGTGGGACTA        |                       |
| ATM  | 1         | ATM-ex1-F     | TGCATTTTGCCTTGAATGGA        | 287                   |
|      |           | ATM-ex1-R     | GGGATAGGCTCCAGGGATTC        |                       |
|      | 2         | ATM-ex2-F     | AGAACACCTTGTGGGGCATT        | 348                   |
|      |           | ATM-ex2-R     | TTCTTCACCATGCGGTTGTC        |                       |
|      | 9         | ATM-ex9-F     | CAAGCATGTATTCTCTGTCTTTAGG   | 419                   |
|      |           | ATM-ex9-R     | GCACATTAAACAAATAACTCACTTG   |                       |
|      | 57,<br>58 | ATM-ex57/58-F | GACGTTGTGGTTCACACTCG        | 487                   |
|      |           | ATM-ex57/58-R | TGCAGGATGTATTGGGTCAA        |                       |
|      | 12,<br>13 | ATR-ex12/13-F | GCTACAAGTGGCGTCAAGCA        | 540                   |
|      |           | ATR-ex12/13-R | GGTGCTGAGACCGAGGAAGA        |                       |
| ATR  | 19,<br>21 | ATR-ex19/21-F | TGAATCCTTGCTCAGTTGGTCTT     | 676                   |
|      |           | ATR-ex19/21-R | TTCAGGGATCAGTTTCATTTAGCA    |                       |
|      | 24        | ATR-ex24-F    | CTGGTGCGGTAAGCACTGC         | 264                   |
|      |           | ATR-ex24-R    | CGGTTTAAAGAGTGGGGTATCAC     |                       |
|      | 45        | ATR-ex45-F    | AACCGAGTCGTTGATTTCTCTC      | 400                   |
|      |           | ATR-ex45-R    | GGAGTGGGTCTTTAAAACTTAAATATG |                       |

